

United States Patent and Trademark Office

UNITED STATES DEPARTMENT OF COMMERCE United States Patent and Trademark Office Address: COMMISSIONER FOR PATENTS P.O. Box 1450 Alexandria, Virginia 22313-1450 www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/901,250	07/09/2001	Joseph P. Tunney	47440-042000	8638
7590 11/10/2004 Stephen T. Scherrer McDermott, Will & Emery 31st Floor 227 West Monroe Street			EXAMINER	
			CHAUDHRY, SAEED T	
			ART UNIT	PAPER NUMBER
Chicago, IL 6			1746	
0 ,			DATE MAILED: 11/10/2004	1

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	— <i>(/</i>
Office Action Comme	09/901,250	TUNNEY ET AL.	
Office Action Summary	Examiner	Art Unit	
	Saeed T Chaudhry	1746	
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet wi	th the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a rewithin the statutory minimum of thirt will apply and will expire SIX (6) MON	eply be timely filed y (30) days will be considered timely. THS from the mailing date of this communic	cation.
Status			
1) Responsive to communication(s) filed on 25 Oc	rtoher 2004		
	action is non-final.		
3)☐ Since this application is in condition for allowan		are procogution as to the most	la !a
closed in accordance with the practice under Ex	x parte Quavle. 1935 C.D.	11 453 O G 213	IS IS
Disposition of Claims		11, 100 0.0. 210.	
4)⊠ Claim(s) <u>1,3-5,7-21 and 24</u> is/are pending in the	annlication		
4a) Of the above claim(s) is/are withdraw	n from consideration		
5) Claim(s) is/are allowed.	ii iioiii consideration,		-
6)⊠ Claim(s) <u>1,3-5,7-21 and 24</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction and/or	election requirement.		
Application Papers	4		
9) The specification is objected to by the Examiner.			
10) The drawing(s) filed on is/are: a) accept			
Applicant may not request that any objection to the di	rowing(s) he held in at account	y the Examiner.	
Applicant may not request that any objection to the dr	rawing(s) be neid in abeyand	e. See 37 CFR 1.85(a).	
Replacement drawing sheet(s) including the correction 11) The oath or declaration is objected to by the Example 11.	miner Note the attached) is objected to. See 37 CFR 1.12	1(d).
	miler. Note the attached	Office Action of form PTO-152	·.
Priority under 35 U.S.C. § 119			
12) ☐ Acknowledgment is made of a claim for foreign p a) ☐ All b) ☐ Some * c) ☐ None of:	priority under 35 U.S.C. §	119(a)-(d) or (f).	
1. Certified copies of the priority documents i	have been received		
2. Certified copies of the priority documents I	have been received in An	olication No	
3. Copies of the certified copies of the priority	v documents have been re	eceived in this National Stage	
application from the International Bureau (PCT Rule 17 2(a))	scored in this National Stage	
* See the attached detailed Office action for a list of	the certified copies not re	ceived.	•
	•		
Attachment(s)			
1) Notice of References Cited (PTO-892)	4) Interview Sun	nmary (PTO-413)	
2) Wotice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/N	Mail Date	
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	5) Notice of Info. 6) Other:	rmal Patent Application (PTO-152)	
U.S. Patent and Trademark Office	on Summary	Part of Paper No /Mail Date 20041	400

Art Unit: 1746

DETAILED ACTION

A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on October 25, 2004 has been entered.

Double Patenting

Claims 1, 3-5, 7-21 and 24 are rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1, 4, 9, 10, 16, 17, 18 of U.S. Patent No. 6,443,166 in view of Brown.

US Patent No. 6,443,166 discloses to clean containers with nitrogen gas and venting the nitrogen gas/chemical mixture to a flare but fails to clean containers having sulfur dioxide gas or chlorine gas and neutralize with neutralizing material such as sodium hydroxide.

Brown (5,017,240) discloses a method for the removal and recovery of hydrocarbon from bulk oil or gasoline storage tanks. The air/vapor discharged from the tank is treated by the treatment facility 16 of the invention which is illustrated to the right of the tank 10 in FIG. 1. The treatment facility 16 comprises a blower 14, several condenser vessels 18, 20 and 22, a caustic wash vessel 24 and a solid absorbent treatment vessel 26 (see col. 3, lines 20-25).

The bulk storage tank is evacuated with a conventional blower 14 having a capacity from 1000 to about 5000 cubic feet per minute and the air/vapor mixture is discharged into the first stage 34 of the treatment facility. This stage employs a caustic wash treatment in vessel 24

Application/Control Number: 09/901,250

Art Unit: 1746

in which the air/vapor mixture is passed counter-current to a spray of caustic, typically aqueous solutions of about 30 weight percent sodium hydroxide to remove sulfur compound from the air/vapor mixture such as mercaptans, hydrogen sulphate, sulfur dioxide and the like. The caustic solution is effective in removing the sulfur compounds which remain dissolved in the liquid and accumulate in the caustic wash tank 36 (see col. 3, lines 39-52). The nitrogen can be introduced to the bulk petroleum storage tank 10 as a source of the flush gas therein by discharging it into the air recycle line 76 (see col. 4, lines 36-41). The dehumidified mixture is passed to the second condensation stage within vessel 20, through line 48. In vessel 20, the air/vapor and nitrogen mixture is mixed with cold nitrogen gas supplied through line 69 which, as described above, is sufficient to cool the mixture to a temperature of about -40.degree. F (see col. 5, lines 3-8). Usually from two to about ten volumes of fresh air per volume of air/vapor mixture within the tank must be introduced as flushing air into the tank before the level of hydrocarbons in the vapor space of the tank is at a sufficiently safe level for workmen (see col. 3, lines 10-15).

It would have been obvious at the time applicant invented the claimed process to utilize the process of Brown into the process of (6,443,166) patent to neutralize spent gas with sodium hydroxide rather than sending the gas/chemical mixture to a flare to reduce the cost of the process of incineration and to use cheap sodium hydroxide for neutralization. Further one would use neutralizing process over incineration since by incinerating gas/chemical mixture still pollute the environment. Further, vacuuming the tank for introducing the gas into the tank are equivalent to blowing the gas into the tank and removing the mixed gas. Therefore, one of ordinary skill in the art would utilize any of the process for flowing the gas into the tank and out of the tank.

Application/Control Number: 09/901,250

Art Unit: 1746

The non-statutory double patenting rejection, whether of the obvious-type or non-obvious-type, is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent. *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970); *In re Van Ornam*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); and *In re Goodman*, 29 USPQ2d 2010 (Fed. Cir. 1993).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321 (b) and © may be used to overcome an actual or provisional rejection based on a non-statutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.78 (d).

Effective January 1, 1994, a registered attorney or agent of record may sign a Terminal Disclaimer. A Terminal Disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

Allowable Subject Matter

Claims 1, 3-21 and 24 would be allowed, if a proper terminal disclaimer is provided.

Reasons For Allowable Subject Matter

The following is an Examiner's statement of reasons for the indication of allowable subject matter:

None of the prior art discloses or suggests method of cleaning a rail tank cars having chlorine gas or sulfur dioxide gas by injecting heated gas and removing gas/chemical mixture from the rail tank car and injecting into a neutralizing tank and then releasing the input gas from the tank.

The closest cited prior art Brown discloses to inject fresh air and fail to disclose that the fresh air is heated before injecting into the tank. Bombard also fails to suggest a step of releasing the gas from the tank.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Saeed T. Chaudhry whose telephone number is (571) 272-1298. The examiner can normally be reached on Monday-Friday from 9:30 A.M. to 4:00 P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Mr. Michael Barr, can be reached on (571)-272-1414. The fax phone number for non-final is (703)-872-9306.

Art Unit: 1746

When filing a FAX in Gp 1700, please indicate in the Header (upper right) "Official" for papers that are to be entered into the file, and "Unofficial" for draft documents and other communication with the PTO that are for entry into the file of the application. This will expedite processing of your papers.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone number is (571) 272-1700.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Saeed T. Chaudhry
Patent Examiner

SUPERVISORY PATENT EXAMINER